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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/605,394	09/27/2003	Fred Hoffman	28679/05100 2393		
24024	7590 04/01/2005		EXAMINER		
CALFEE H	ALTER & GRISWOL	GRAVINI, STEP	GRAVINI, STEPHEN MICHAEL		
800 SUPERI SUITE 1400	OR AVENUE	ART UNIT	PAPER NUMBER		
	D, OH 44114	3749			
			DATE MAILED: 04/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)	c.t.			
		10/605,3	394	HOFFMAN ET AL.	(3)			
Office .	Action Summary	Examine	er	Art Unit				
		Stephen	Gravini	3749				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status			•					
2a) This action 3) Since this a	e to communication(s) file is FINAL. application is in condition accordance with the practi	2b)⊠ This action is for allowance excep	non-final. It for formal matters, pro		merits is			
Disposition of Claim	ıs							
<ul> <li>4)  Claim(s) 1-22 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-22 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>								
Application Papers								
10)∭ The drawing Applicant ma Replacemen	ation is objected to by the state of the sta	a) accepted or bection to the drawing(s) the correction is requ	be held in abeyance. Serired if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF				
Priority under 35 U.S	S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
	on's Patent Drawing Review (Fure Statement(s) (PTO-1449 or		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	)-152)			

Art Unit: 3749

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 15 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 15 recites "wherein said purge flow passes from said purge volume via a bore in said manifold in which a fastener securing said air dryer to the vehicle is disposed." That recitation is considered non-enabling from the specification, because paragraph 0032 of the specification states a special fitting 30 is threaded in a central bore 60 then tightened to provide secure mounting of the air dryer 10. That paragraph also discusses the fitting 30 is further adapted to allow for communication between the air dryer 10 and reservoir 40 through the central bore 60. Paragraph 0025 specify a specialized (but not special) fitting, fastener, or bolt 30 and give examples but figures 1A-3 and 9-11 show a threaded fastener 30 that is not enabling such that the claimed purge flow can occur. Furthermore, the specification does not describe such that one skilled in the art would be able to make or use the invention such that air flow occurs through the fitting.

Art Unit: 3749

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

### Claim Rejections - 35 USC § 102

Claims 1-2, 6-7, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Dossaji et al. (US 5,961,698). Dossaji is considered to disclose the claimed invention comprising:

an air dryer **10** including a manifold **16** and a desiccant cartridge **12** wherein said manifold includes a threaded portion **14** for connecting to said desiccant cartridge;

a bore 42 or 36 running through said manifold; and

a fastener 14 disposed in said bore, wherein air flow passing through the air dryer intersects the bore and communicates to a purge volume, wherein said fastener connects said air dryer manifold to the purge volume. Dossaji is also considered to disclose the claimed reservoir which houses said purge volume, wherein said fastener connects said air dryer to said reservoir at column 4 line 40, wherein said assembly is used in connection with a commercial vehicle air brake system at column 1 line 39, wherein said desiccant cartridge contains a set of threads which are used to thread the cartridge onto a set of corresponding threads located on said manifold at column 3 line 49, and a reservoir including a first passageway 36 for transmitting first dried compressed air between said air dryer and the purge volume and a second passageway 42 for transmitting second dried compressed air between said dryer and a downstream component, the second dried compressed air being transmitted between

0740

Art Unit: 3749

the air dryer and the downstream component without passing through the purge chamber.

Claims 10-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Shamine et al. (US 5,607,500). Shamine is considered to disclose the claimed invention comprising:

a manifold **68**, wherein said manifold includes a bore **104** for insertion of a mounting fastener and a threaded portion **84**; and

a spin-on desiccant cartridge **12**, which connects to said threaded portion of said manifold (please see column 4 lines 23-35),

wherein said manifold bore communicates air between the air dryer and a purge volume, and wherein said mounting fastener connects said air dryer manifold to the purge volume (please see column 4 lines 31-46); or alternatively:

a manifold 68;

a desiccant cartridge **12** mounted on a threaded portion of said manifold (please see column 4 lines 23-35); and

a fastener 84 disposed within a bore running through said manifold;

wherein said fastener is secured to an outer surface of an enclosed reservoir **70**. Shamine is also considered to disclose the claimed bore is in communication with an air flow path in said air dryer (column 4 lines 64-67) and a purge volume disposed within said reservoir and means for prohibiting rotation of the air dryer (column 4 lines 10-15).

Claim 14 is rejected under 35 U.S.C. 102(b) as being anticipated by Blevins et al. (US 5,595,588). Blevins is considered to disclose the claimed invention comprising:

Art Unit: 3749

aligning an air dryer with a reservoir such that one or more stabilizing mechanisms interlock to prevent rotation of the air dryer relative to the reservoir (please see column 4 lines 17-35);

inserting a fastener through the manifold and into a threaded member in the reservoir (please see column 3 lines 35-50); and

tightening said fastener to said reservoir (please see column 4 line 35).

Claims 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Mahoney et al. (US 6,094,836). Claim 15 is treated in light of the prior art assuming that the claimed invention is enabling. Claim 16 is treated under the assumption that 35 USC 112 sixth paragraph is invoked (from the means for recitation) since all the elements of MPEP 2181 appear to satisfy invoking that statute. Mahoney is considered to disclose the claimed invention comprising:

delivering a flow of air to an air dryer manifold with a desiccant bed canister attached to a threaded portion of said manifold (please see column 3 line 59 through column 4 line 7 and column 4 lines 31-58);

passing said flow of said air through the desiccant bed, thereby drying the air (please see column 6 lines 40-50);

delivering the dried air to a set of downstream components; (please see column 8 lines 18-23);

purging the desiccant bed with a purge flow from a purge volume to regenerate the desiccant bed (please see column 7 lines 18-26); and

Art Unit: 3749

exhausting said purge flow after it has passed through said desiccant bed (please see column 6 lines 51-63);

wherein said purge flow passes from said purge volume via a bore in said manifold in which a fastener securing said air dryer to the vehicle is disposed (please see column 5 lines 17-21); or alternatively:

an air dryer including a manifold **124** and desiccant cartridge **45** connected to a threaded portion **56** of said manifold; and

a means **106** for securing said air dryer to an air reservoir, wherein said air reservoir includes a purge volume;

wherein means for securing said air dryer includes a means for communicating air between said air dryer and said purge volume and a fastening means disposed within said means for communicating air between said air dryer and said purge volume, said fastening means securing said air dryer to said air reservoir (please see column 4 line 59 through column 5 line 16.

Claim 17 is rejected under 35 U.S.C. 102(b) as being anticipated by Zoglman et al. (US 5,427,609). Zoglman is considered to disclose the claimed invention comprising:

an air dryer 10 including a manifold 14 and desiccant cartridge 100;
a single fastener 18 for securing said manifold to a vehicle; and
an anti-rotation mechanism 24 that prevents rotation of the air dryer when said
air dryer is secured to the vehicle.

Claim 18 is rejected under 35 U.S.C. 102(b) as being anticipated by Yandell (US 1,993,201). Claim 18 is also treated under the assumption that 35 USC 112 sixth paragraph is invoked (from the means for recitations) since all the elements of MPEP 2181 appear to satisfy invoking that statute. Yandell is considered to disclose the claimed invention comprising:

an air dryer 1;

a single means 2 for securing said air dryer to an outer surface of an enclosed purge reservoir; and

a means for preventing rotation of the air dryer when said air dryer is secured to the purge reservoir (please see right side of column 7 lines 1-8).

## Claim Rejections - 35 USC § 103

Claims 3-5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dossaji in view of Shamine. Dossaji is considered to disclose the claimed invention, as discussed above under the anticipatory rejection, except for the claimed means for stabilization and rotation prevention. Shamine, another air dryer, is considered to disclose means for stabilization and rotation prevention at column 4 lines 10-15. It would have been obvious to one skilled in the art to combine the teachings of Dossaji with the means for stabilization and rotation prevention, considered disclosed in Shamine, for the purpose of providing a locking and retention feature. Furthermore, Dossaji is considered to disclose the claimed invention, except for the claimed thread measurement. It would have been an obvious matter of design choice to recite a

Art Unit: 3749

claimed thread measurement since the teachings of Dossaji would perform the claimed invention regardless of the thread measurement.

Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yandell in view of Zoglman. Yandell is considered to disclose the claimed invention, as discussed above under the anticipatory rejection, except for the claimed second fastener anti-rotation mechanism. Zoglman, another air dryer, is considered to disclose a second fastener anti-rotation mechanism at column 4 lines 42-63. It would have been obvious to one skilled in the art to combine the teachings of Yandell with the second fastener anti-rotation mechanism, considered disclosed in Zoglman, for the purpose of securing and mounting an air dryer.

Claims 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zoglman. Zoglman is considered to disclose the claimed invention, except for the claimed height percentage. It would have been an obvious matter of design choice to recite a claimed height percentage since the teachings of Zoglman would perform the claimed invention regardless of the height percentage.

### **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA

Art Unit: 3749

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418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, In re Thorington,

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-22 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-14, 22, and 29-38 of copending Application No. 10/359,984. Although the conflicting claims are not identical, they are not patentably distinct from each other because each of the presently claimed features are recited in various embodiments of the co-pending allowable application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gravini whose telephone number is 571 272 4875. The examiner can normally be reached on normal weekday business hours (east coast time).

Application/Control Number: 10/605,394 Page 10

Art Unit: 3749

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira S. Lazarus can be reached on 571 272 4877. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SMG March 31, 2005 Stophi M Gravin